I. **AMENDMENTS TO THE CLAIMS**:

1. (Currently Amended) A process for preparing (per)fluorohalogenethers containing the $-SO_2F$ group and having general formula (I):

$$FSO_2\text{-}R\text{-}CF_2OCAF\text{-}CA'F_2 \quad (I)$$

wherein:

- A and A', equal to or different from each other, are Cl or Br;
- R can have the following meanings: a (per)fluorinated ~~, preferably perfluorinated,~~ substituent, selected from the following groups: linear or branched C_1-C_{20} alkyl, C_3-C_7 cycloalkyl; aromatic, C_6-C_{10} arylalkyl or alkylaryl; C_5-C_{10} heterocyclic or alkylhetero-cyclic;

  optionally containing one or more oxygen atoms;

  when R is fluorinated, it can optionally contain one or more H atoms and/or one or more halogen atoms different from F;

by reaction of carbonyl compounds having formula (II):

$$FSO_2\text{-}R\text{-}COF \quad (II)$$

wherein R is as above;

in liquid phase with elemental fluorine and with olefinic compounds having formula (III):

$$CAF=CA'F \quad (III)$$

wherein A and A'are as above,

by operating at temperatures from -120°C to -20°C, ~~preferably from -100°C to -40°C,~~ optionally in the presence of a solvent inert under the reaction conditions.

2. (Original) A process according to claim 1, wherein the fluorine is diluted with an inert gas selected between nitrogen or helium.

3. (Currently Amended) A process according to claim 1, wherein the formula (III) compounds are selected from 1,2-dichloro-1,2-difluoroethylene (CFC 1112) [[,]] and 1,2-dibromo-1,2-difluoroethylene ~~, preferably CFC 1112~~.

4. (Currently Amended) A process according to claim 1, wherein the solvent is selected from the group ~~comprising~~ consisting of the following compounds: (per)fluorocarbons, (per)fluoroethers, (per)fluo-ropolyethers, perfluoroamines, or respective mixtures; fluoropolyethers containing at least one hydrogen atom in one end group ~~, preferably in both end groups~~; fluoroethers containing at least one hydrogen atom in one end group ~~, preferably in both end groups~~, or containing non fluorinated end groups of the type OR_a wherein R_a is an alkyl from 1 to 3 carbon atoms.

5. (Currently Amended) A process according to claim 1, wherein, when R in formula (I) is fluorinated, it optionally contains one or more H atoms and/or one or more halogen atoms different from F ~~, preferably Cl~~.

6. (Previously Presented) A process according to claim 1 carried out in a semicontinuous or a continuous way.

7. (Original) A semicontinuous process according to claim 6, wherein the molar ratio (I-I):(III) ranges from 10:1 to 1:20 and the used amount by moles of fluorine is equal to or lower than the amount by moles of (III).

8. (Original) A continuous process according to claim 6, wherein the molar ratio (II):(III) is as defined in claim 7 and the molar ratio F_2:(III) ranges from 1:20 to 10:1.

9. (Currently Amended) A process according to claim 1, wherein one operates at partial conversion of compound (II) ~~, preferably the conversion ranges from 10% to 40%, still more preferably from 10% to 20%~~.

10. (Currently Amended) ~~A process according to claim 1,~~ A process for preparing (per)fluorohalogenethers containing the $-SO_2F$ group and having general formula (I):

$$FSO_2\text{-}R\text{-}CF_2OCAF\text{-}CA'F_2 \quad (I)$$

wherein:

- A and A', equal to or different from each other, are Cl or Br;
- R can have the following meanings: a (per)fluorinated substituent, selected from the following groups: linear or branched C_1-C_{20} alkyl, C_3-C_7 cycloalkyl; aromatic, C_6-C_{10} arylalkyl or alkylaryl; C_5-C_{10} heterocyclic or alkylheterocyclic;

  optionally containing one or more oxygen atoms;

when R is fluorinated, it can optionally contain one or more H atoms and/or one or more halogen atoms different from F;

by reaction of carbonyl compounds having formula (II):

$$FSO_2\text{-}R\text{-}COF \quad (II)$$

wherein R is as above;

in liquid phase with elemental fluorine and with olefinic compounds having formula (III):

$$CAF{=}CA'F \quad (III)$$

wherein A and A'are as above,

by operating at temperatures from -120°C to -20°C, optionally in the presence of a solvent inert under the reaction conditions, and

wherein [[the]] a dehalogenation step is carried out to obtain [[the]] fluorinated vinylethers.

11. (New) A process accordingly to claim 1, wherein R is a perfluorinated substituent.

12. (New) A process accordingly to claim 1, wherein the temperatures are from -100°C to -40°C.

13. (New) A process according to claim 3, wherein the formula (III) compounds are CFC 1112.

14. (New) A process according to claim 4, wherein the fluoropolyethers contain at least one hydrogen atom in both end groups;

15. (New) A process according to claim 4, wherein the fluoroethers contain at least one hydrogen atom in both end groups.

16. (New) A process according to claim 5, wherein the one or more halogen atoms is Cl.

17. (New) A process according to claim 9, wherein the conversion ranges are from 10% to 40%.

18. (New) A process according to claim 17, wherein the conversion ranges are from 10% to 20%.